projects sanctioned in 12 States as test projects on Village Energy Security, 15 are in Madhya Pradesh.

(d) and (e) No such proposal is under consideration of the Government.

(f) A total of around 1.5 million square metres of solar collector area has so far been installed for water heating in the country. This includes domestic solar water heaters and installations in institutions, industry and commercial establishments, Installations have been higher in States where hot water is required for a greater part of the year. Karnataka leads in installation of solar water heating systems followed by Maharashtra, Gujarat, Andhra Pradesh and Kerala. These are also becoming popular in other States such as Tamil Nadu, Madhya Pradesh, Chhattisgarh, Himachal Pradesh, Uttaranchal, Punjab and Haryana.

installation of Power Co-Generation Projects

1262. SHRIMATI SHOBHANA BHARTIA:
SHRIMATI N.P. DURGA:

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the plans his Ministry has for installation of co-generation projects based on biomass and industrial wastes;

(b) whether it is a fact that pulp and paper, textile mills, rice mills, solvent extration units have a potential of developing 15,000 MW of power co-generation; and

(c) if so, in what manner the Ministry is planning to fully utilize these for power production?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) The Ministry of New and Renewable Energy is implementing Programmes on Bio-mass Energy & Co-generation and Recovery of Energy/Power Generation from Industrial and Commercial Wastes and Effluents for promoting the setting up of co-generation projects based on bagasse, other bio-mass and industrial wastes.

(b) A potential of about 15,000 MW of generation of power through co-generation has been estimated in various core industries such as sugar

industry, fertilizers, distilleries, pulp and paper industry, rice mills, solvent extraction units, etc. This includes a potential of about 5,000 MW through bagasse co-generation in sugar mills. Apart from this, there is a potential of about 1,000 MW for power generation from bio-degradable industrial wastes.

(c) The Ministry is promoting the utilization of bio-mass and industrial wastes for power production by providing Central Financial Assistance in the form of interest subsidy ranging from 1% to 6% for bagasse co-generation projects and capital subsidy ranging from Rs. 20.00 lakhs to Rs. 80.00 lakhs per MW for co-generation projects based on other bio-mass and industrial waste, depending on the type of project.

Apart from this, awareness is being created through organization of workshops/seminar/business meets and dissemination of information and publicity to encourage the setting up of such projects.

Refrigerator running on Solar Energy

1263. SHRI SANJAY RAUT: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether Government's attention have been drawn to the recent report about the newly invented refigerator which runs on solar energy and successfully demonstrated by Dr. Rajendra Shende at Rashtrapati Bhawan;

(b) if so, Government's views and response thereto; and

(c) the details of steps taken or proposed to be taken for providing necessary help to the Dr. Shende for utilizing this invention in our country?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) to (c) Yes Sir. An improved vaccine refrigerator, called Solarchill, has been demonstrated by Dr. Rajendra Shende, Unit Head of United Nations Environment Programme (UNEP). The unit has been installed at the President's Estate Clinic on experimental basis.

Solarchill has been developed, through partnership programme of the United Nationals Environment Programme (UNEP), the United Nations Children's Fund (UNICEF), the World Health Organization (WHO), the Danish Technological Institute (DTI), Greenpeace International, GTZ Proklima, and Programme for Appropriate Technologies in Health (PATH).